

FIG. 1

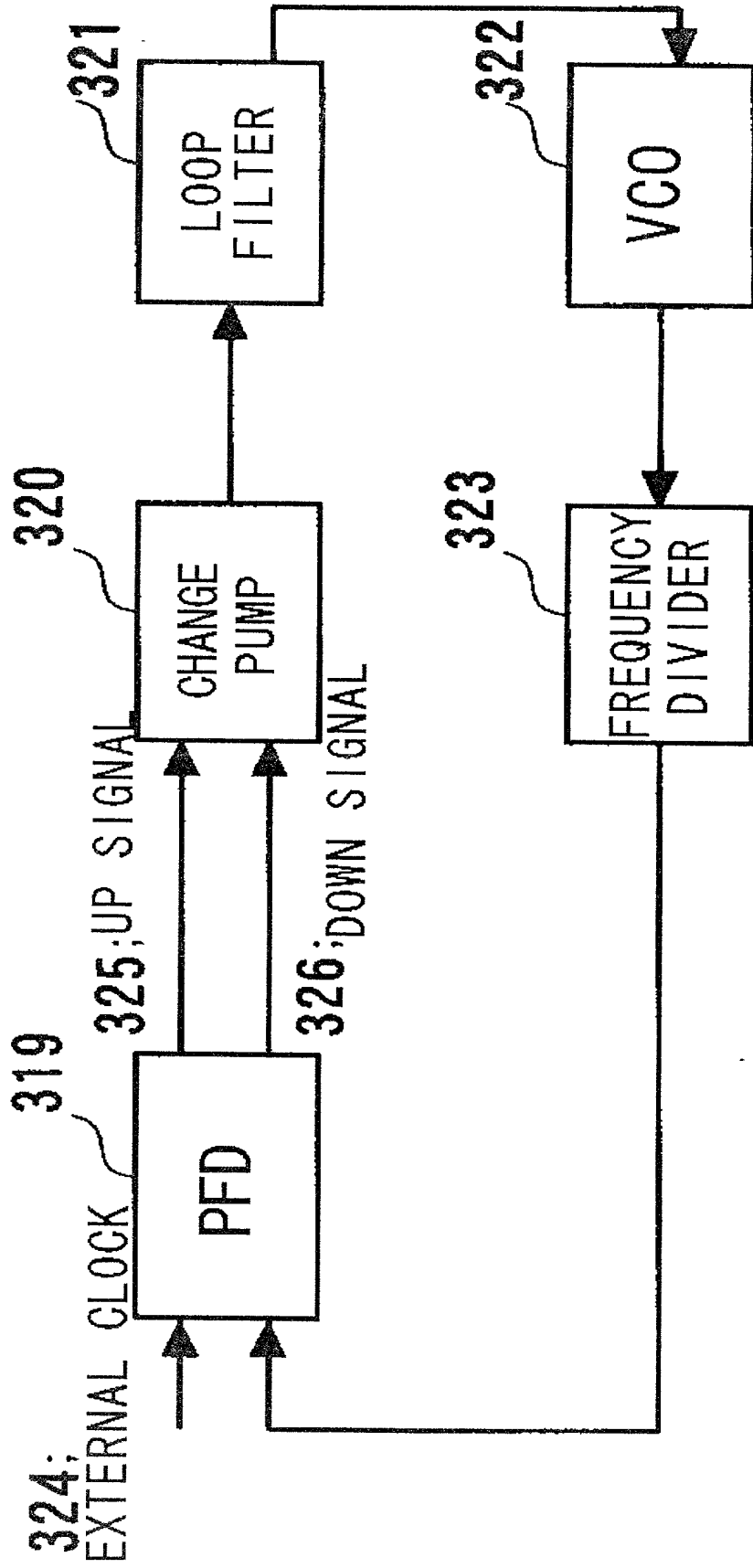
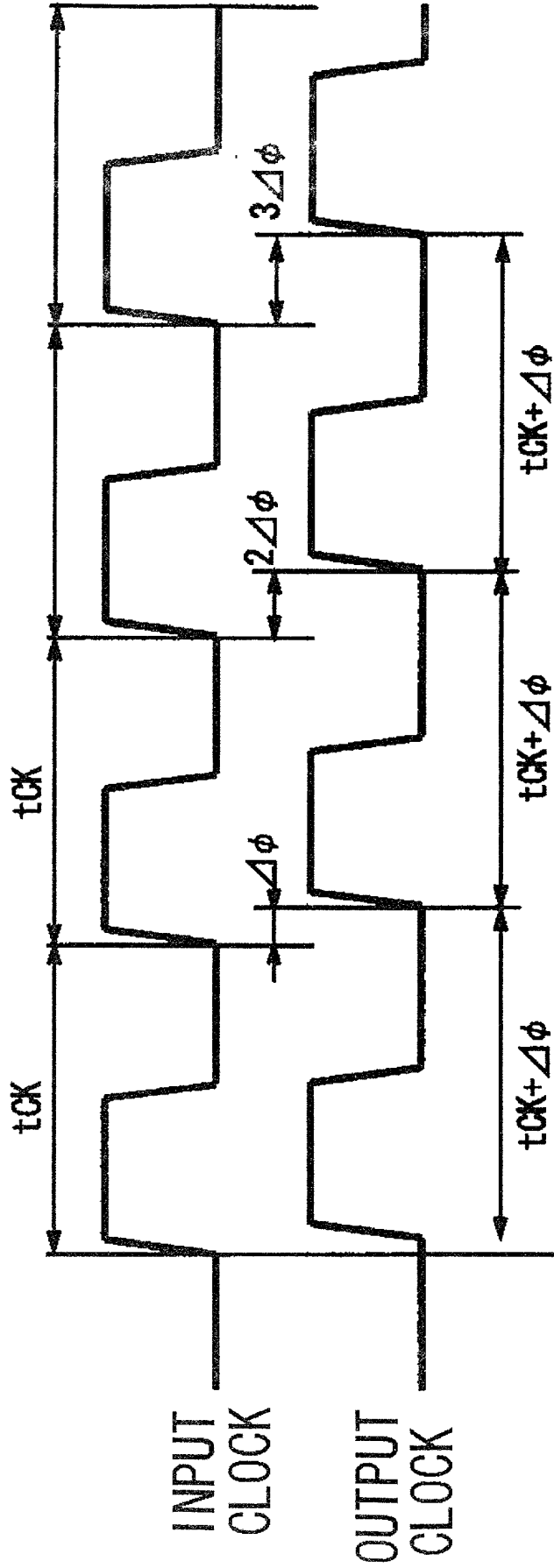
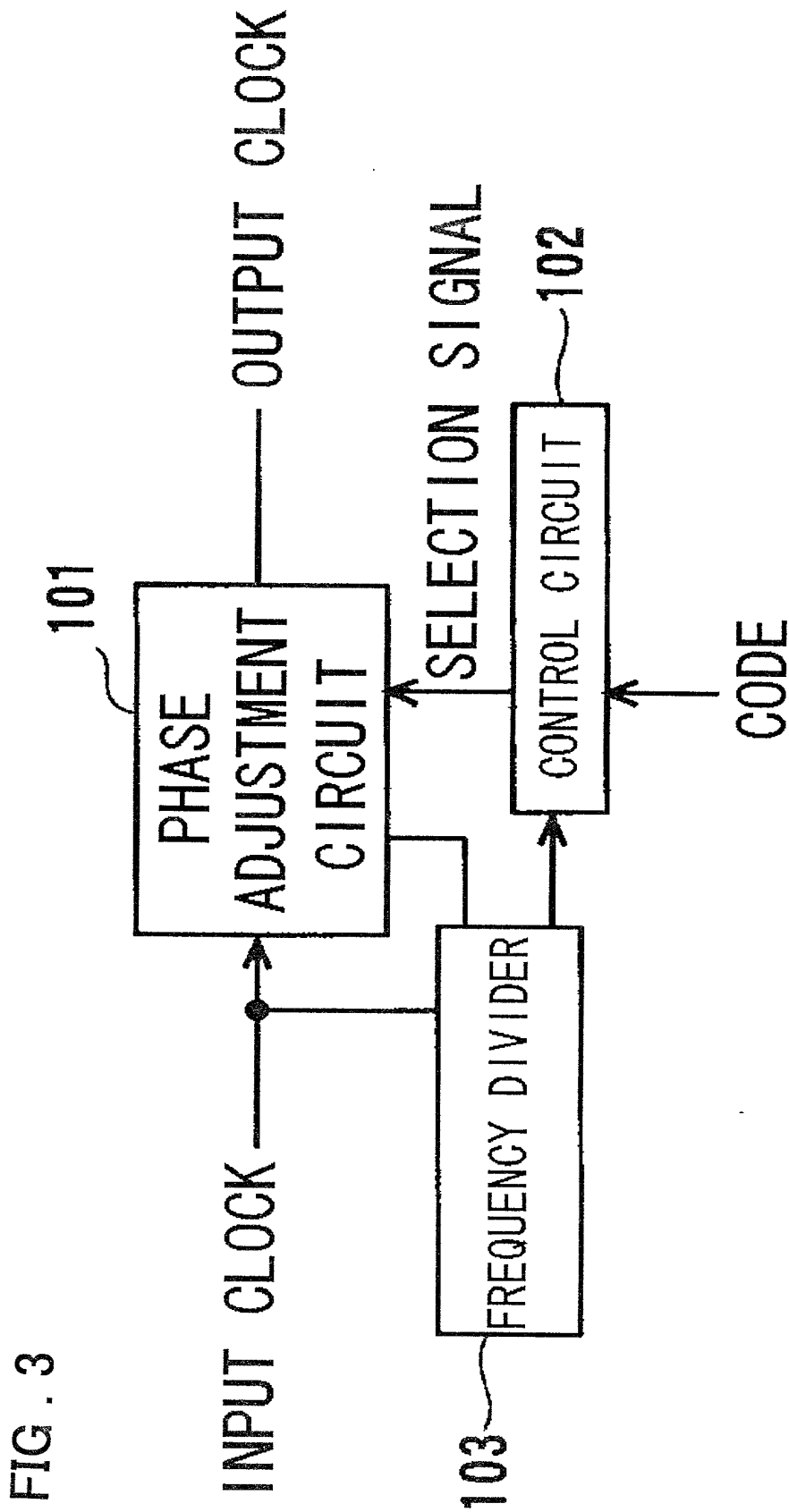
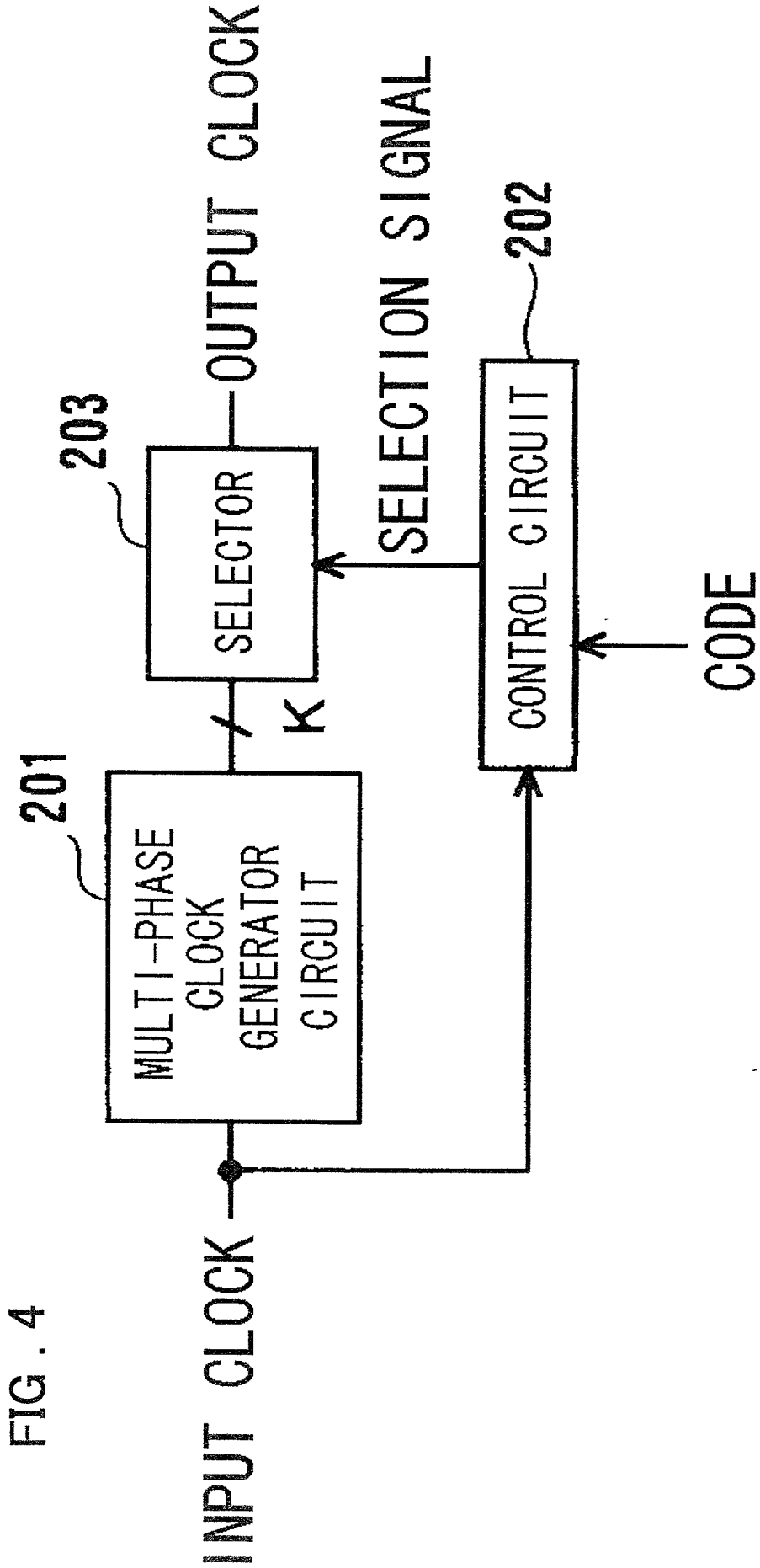


FIG . 2



PERIOD RATIO = $(t_{CK} + \Delta\phi) / t_{CK}$





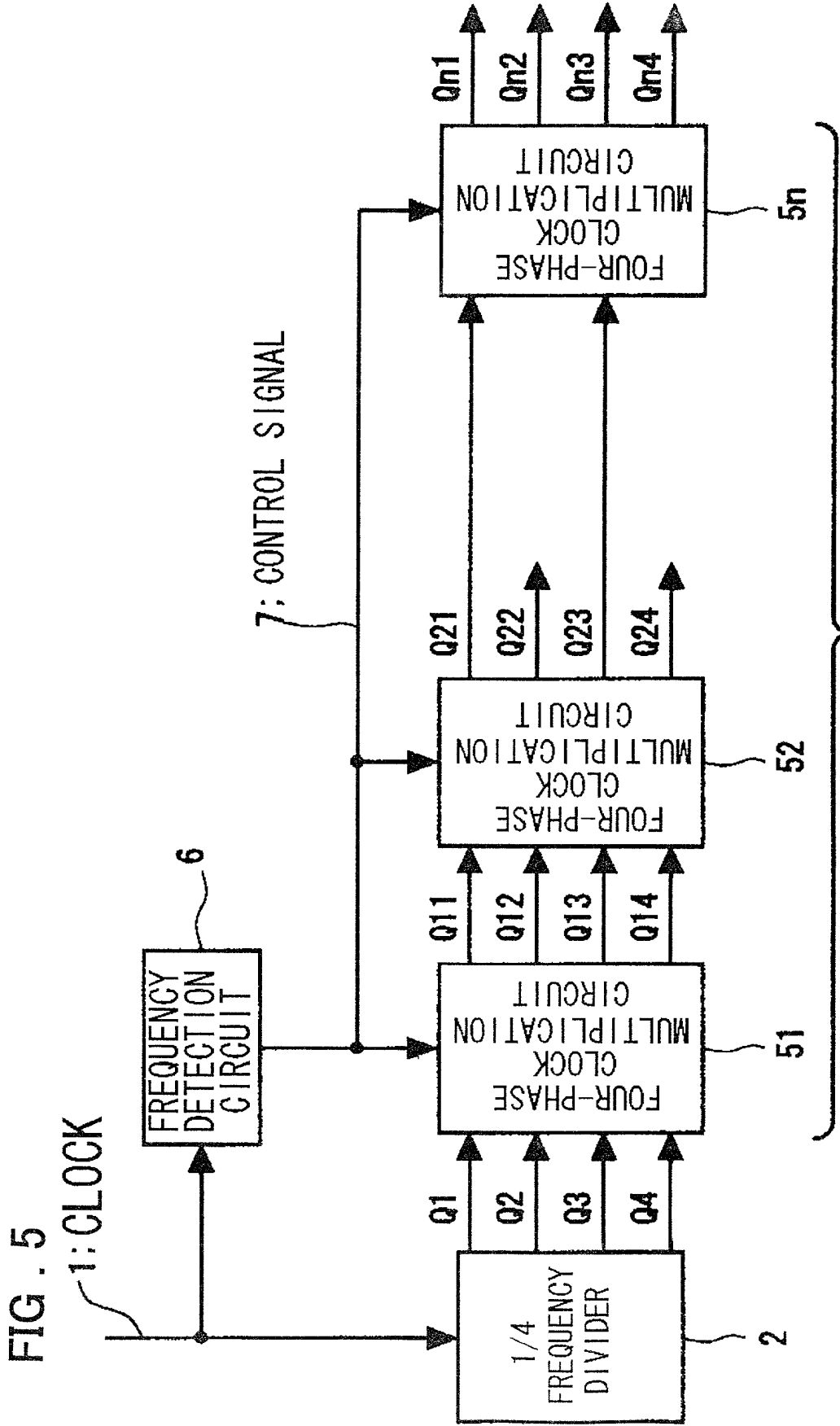


FIG. 5

5: FOUR-PHASE CLOCK MULTIPLICATION CIRCUIT

FIG . 6 a

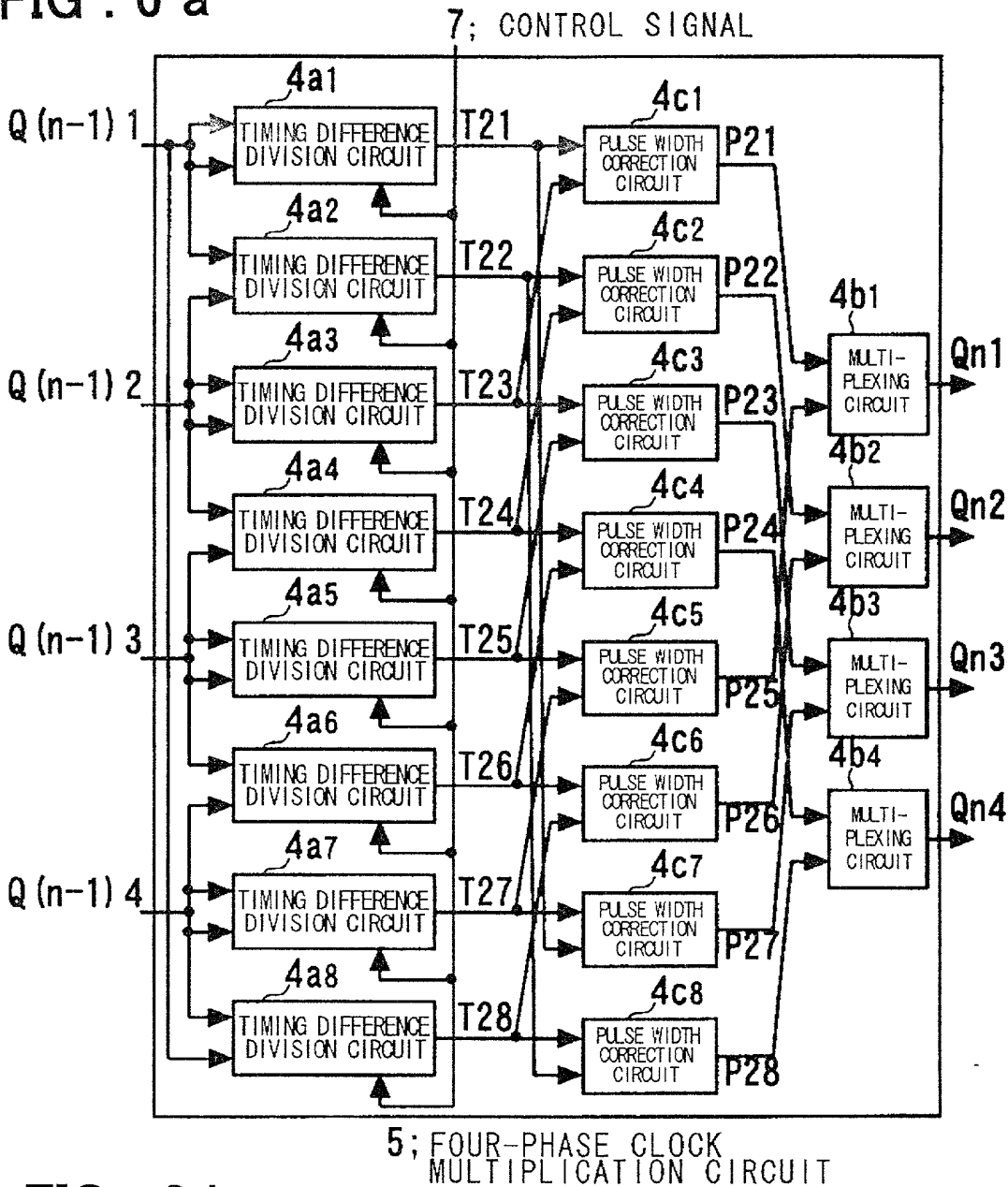


FIG . 6 b

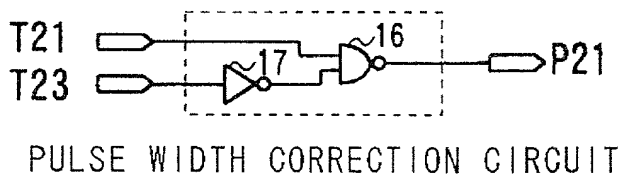


FIG . 6 c

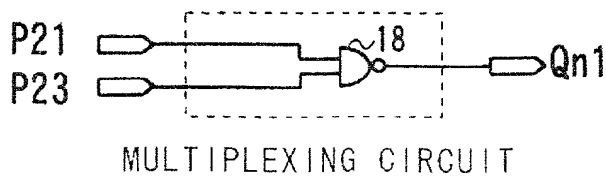
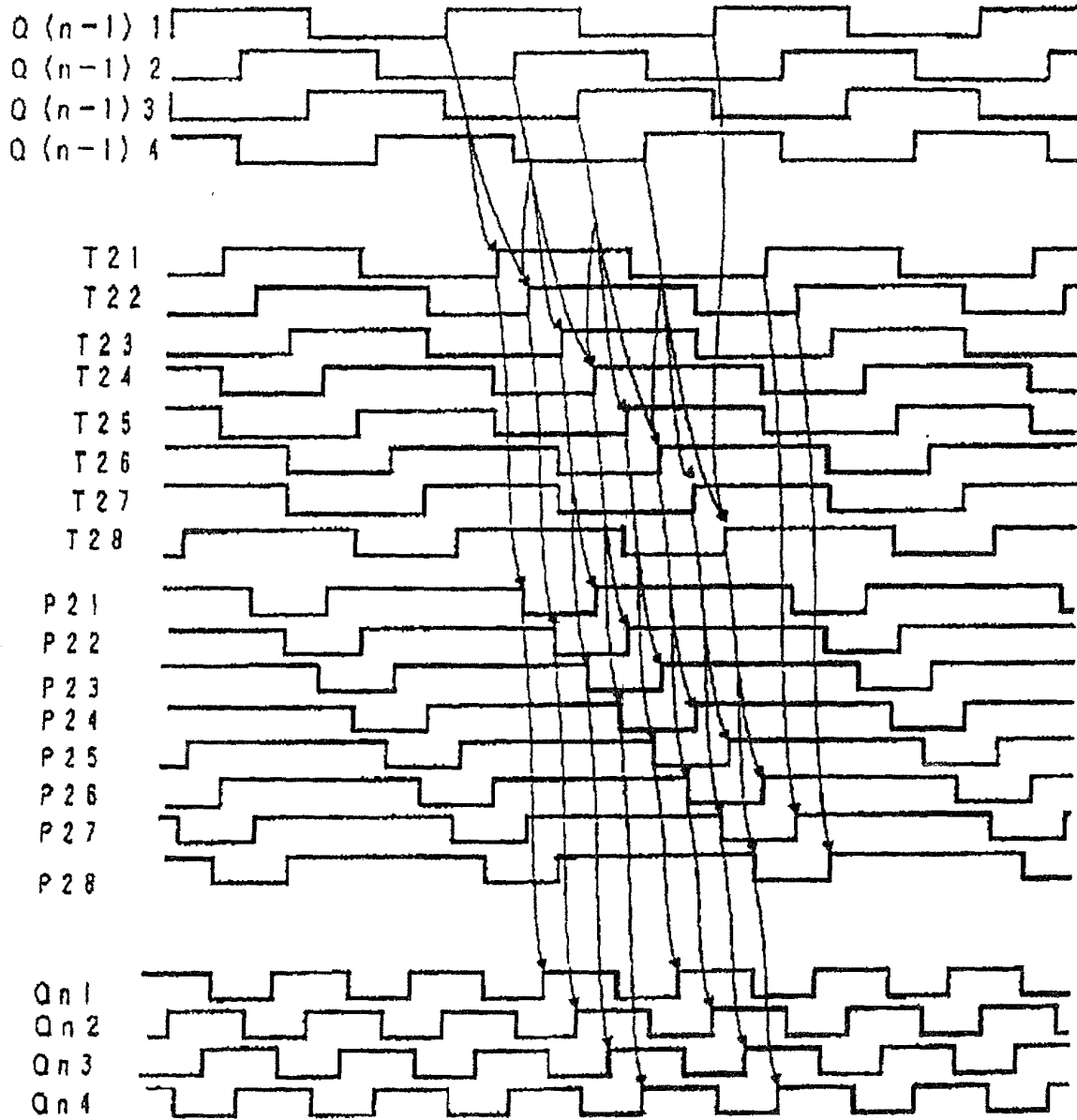
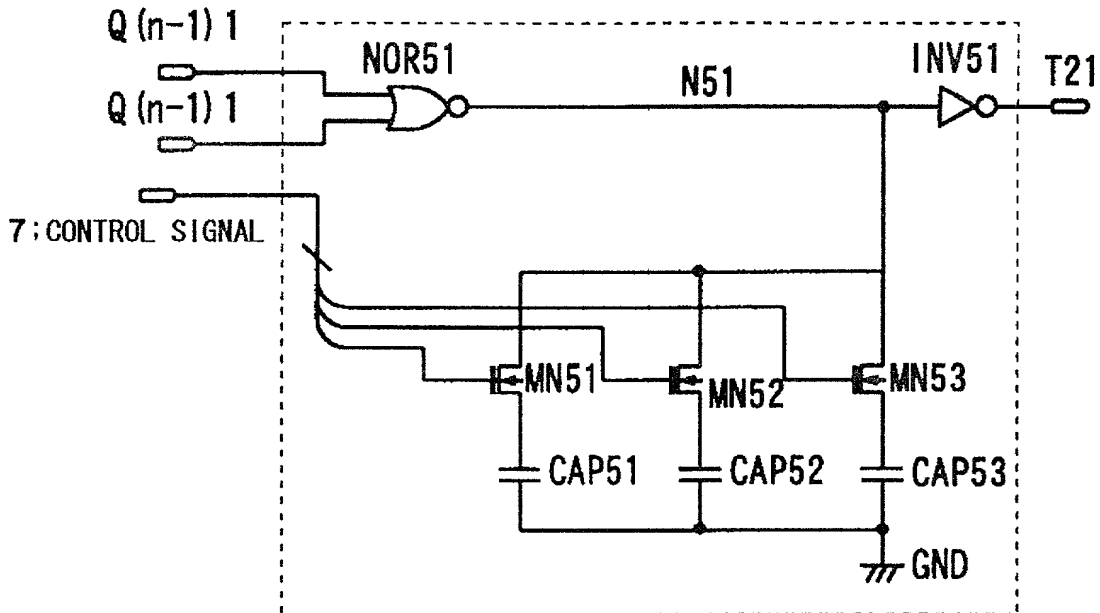


FIG . 7



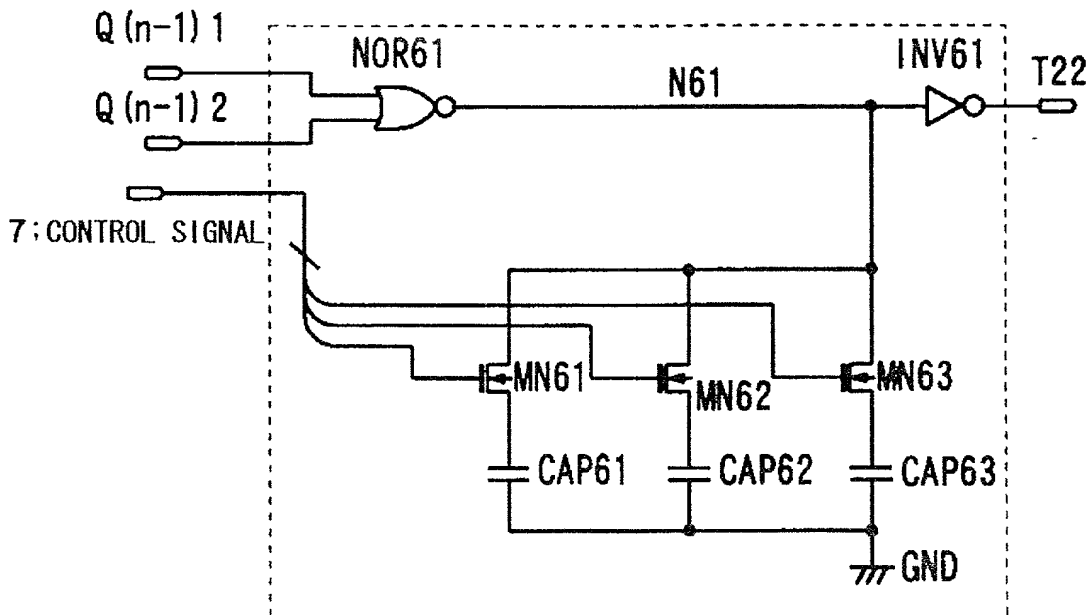
0910117-072001

FIG . 8 a



4a1; TIMING DIFFERENCE DIVISION CIRCUIT

FIG . 8 b



4a2; TIMING DIFFERENCE DIVISION CIRCUIT

FIG . 9

FOU220"CTF0T660

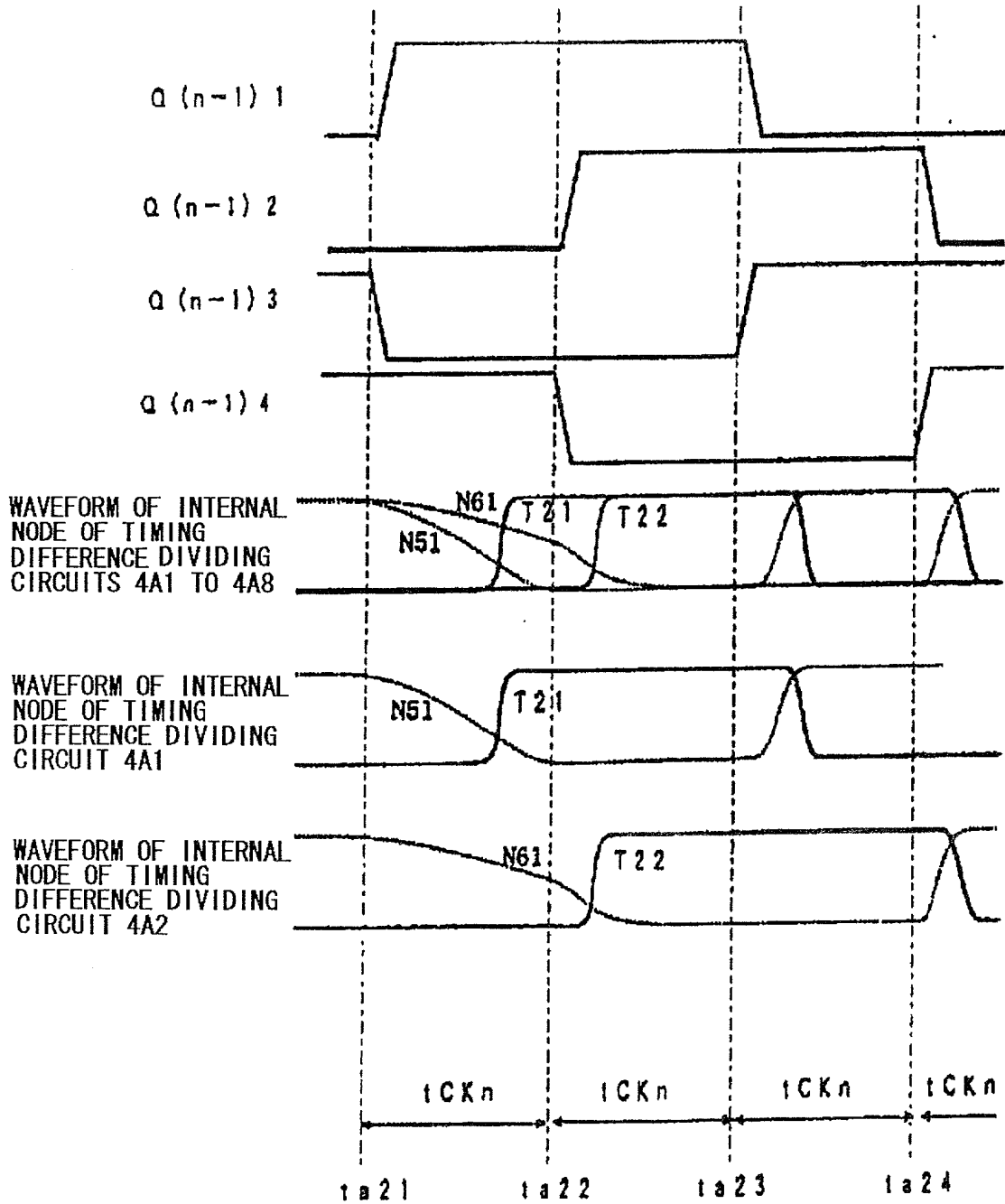


FIG . 10

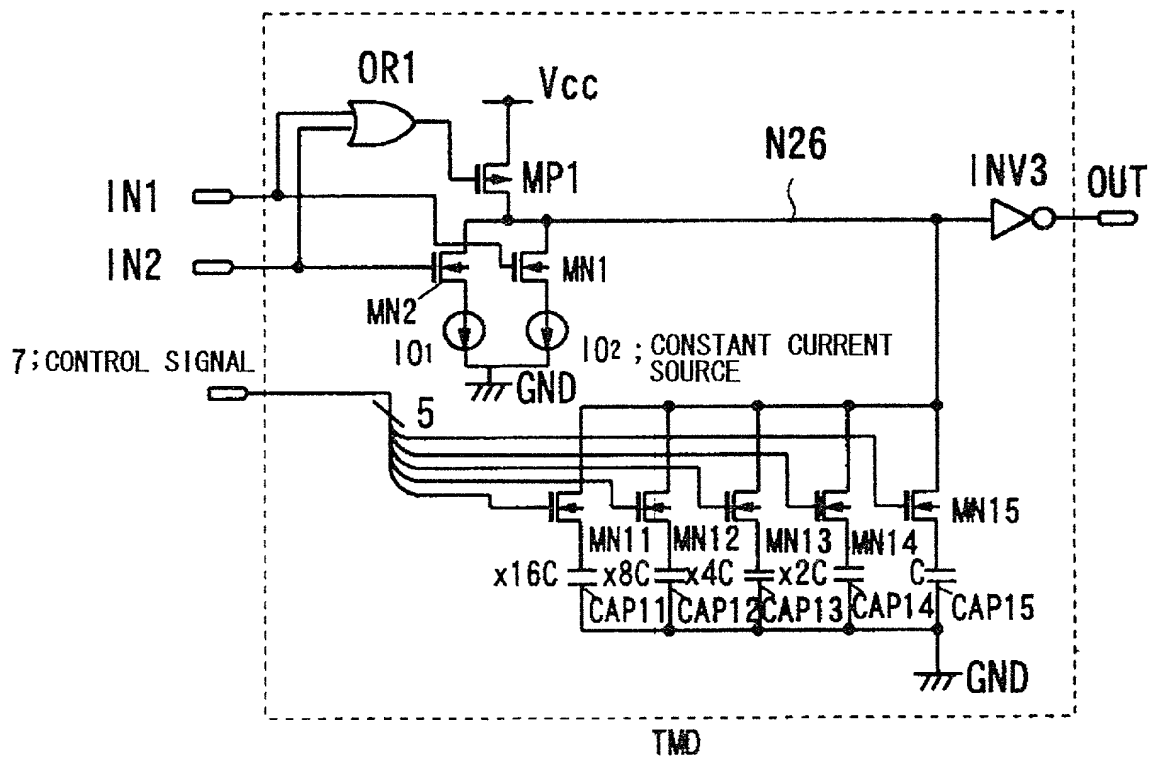


FIG . 11 a

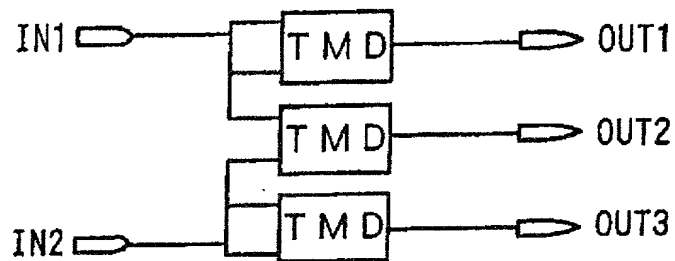


FIG . 11 b

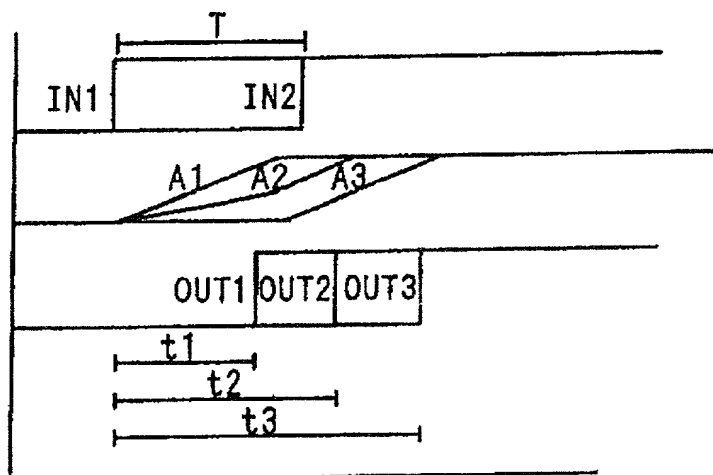


FIG . 11 c

$$t1 = CV/2I$$

$$t2 = T + (CV - IT) / 2I$$

$$t2 = (1/2)T + t1$$

$$t3 = T + CV/2I = T + t1$$

FO0220" 2FF0F560

FIG. 12

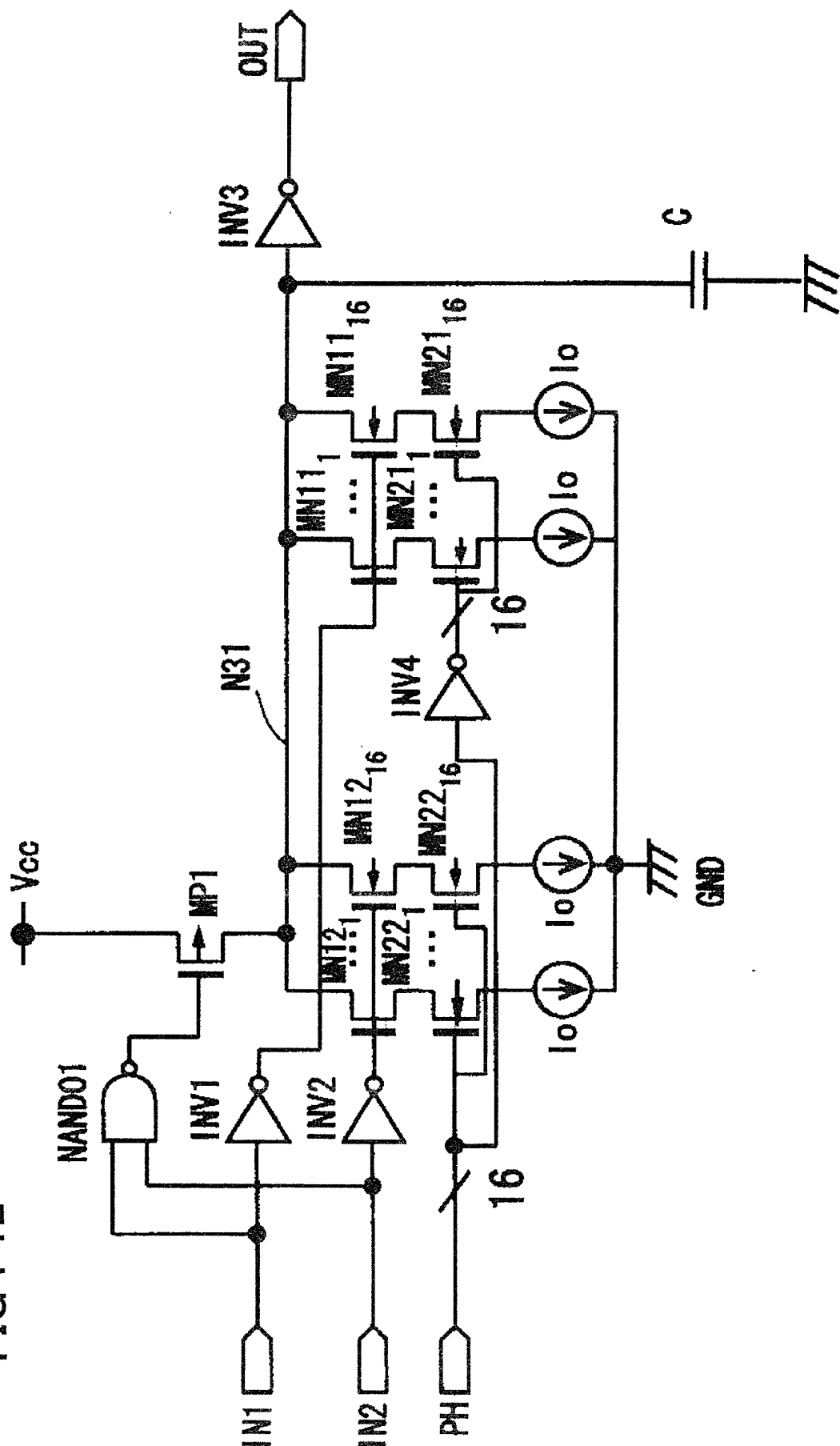


FIG . 13

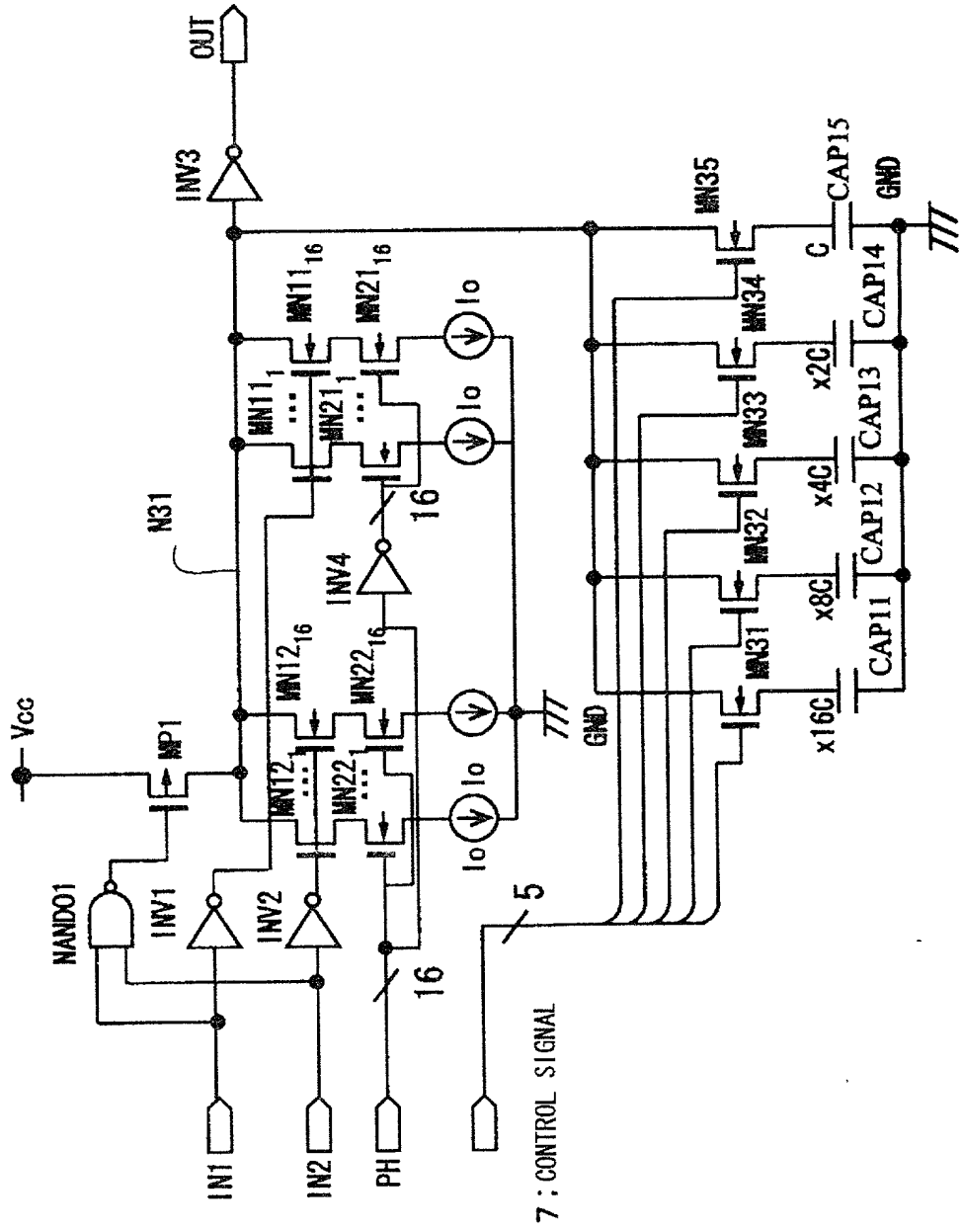


FIG .14

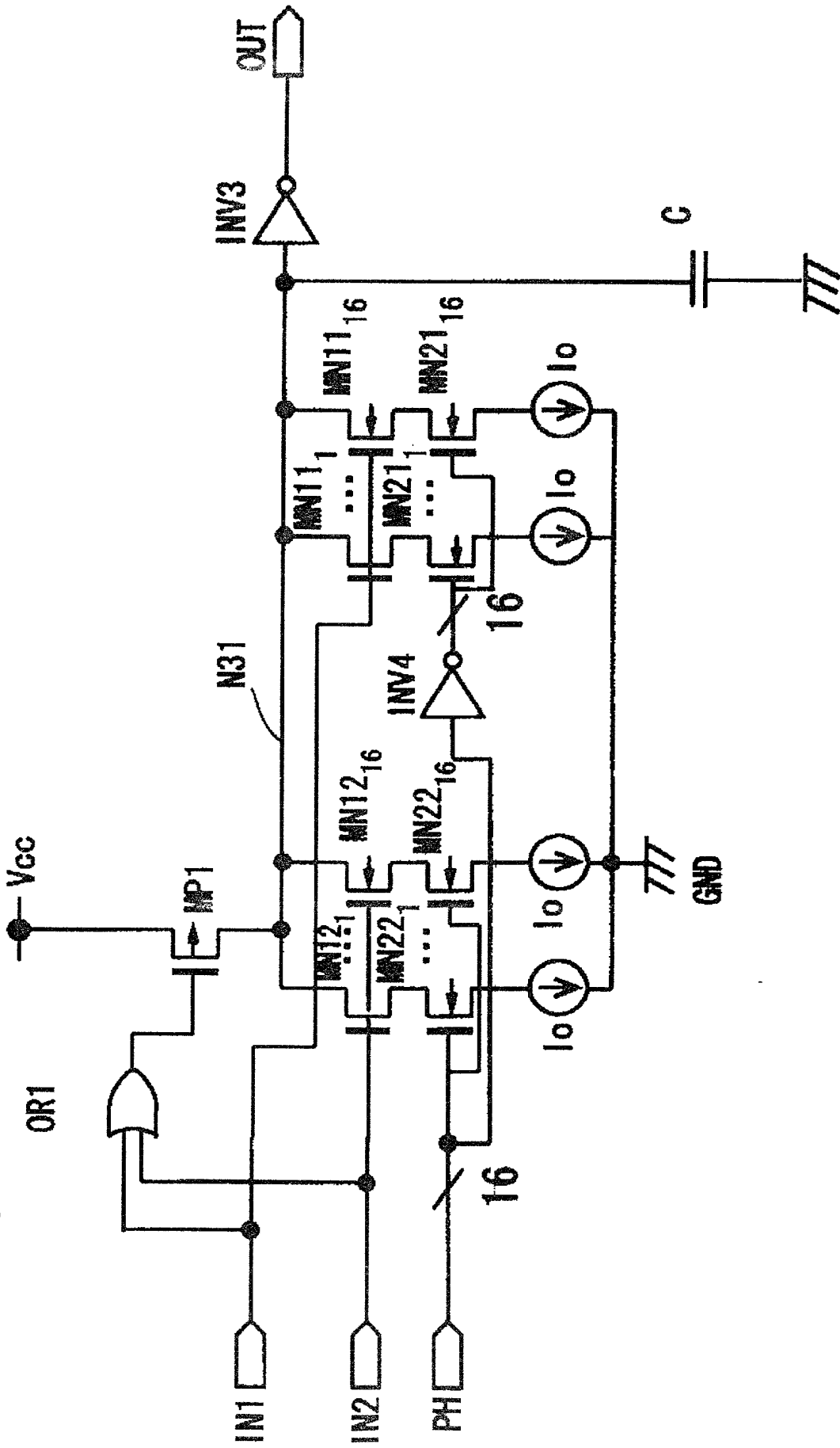
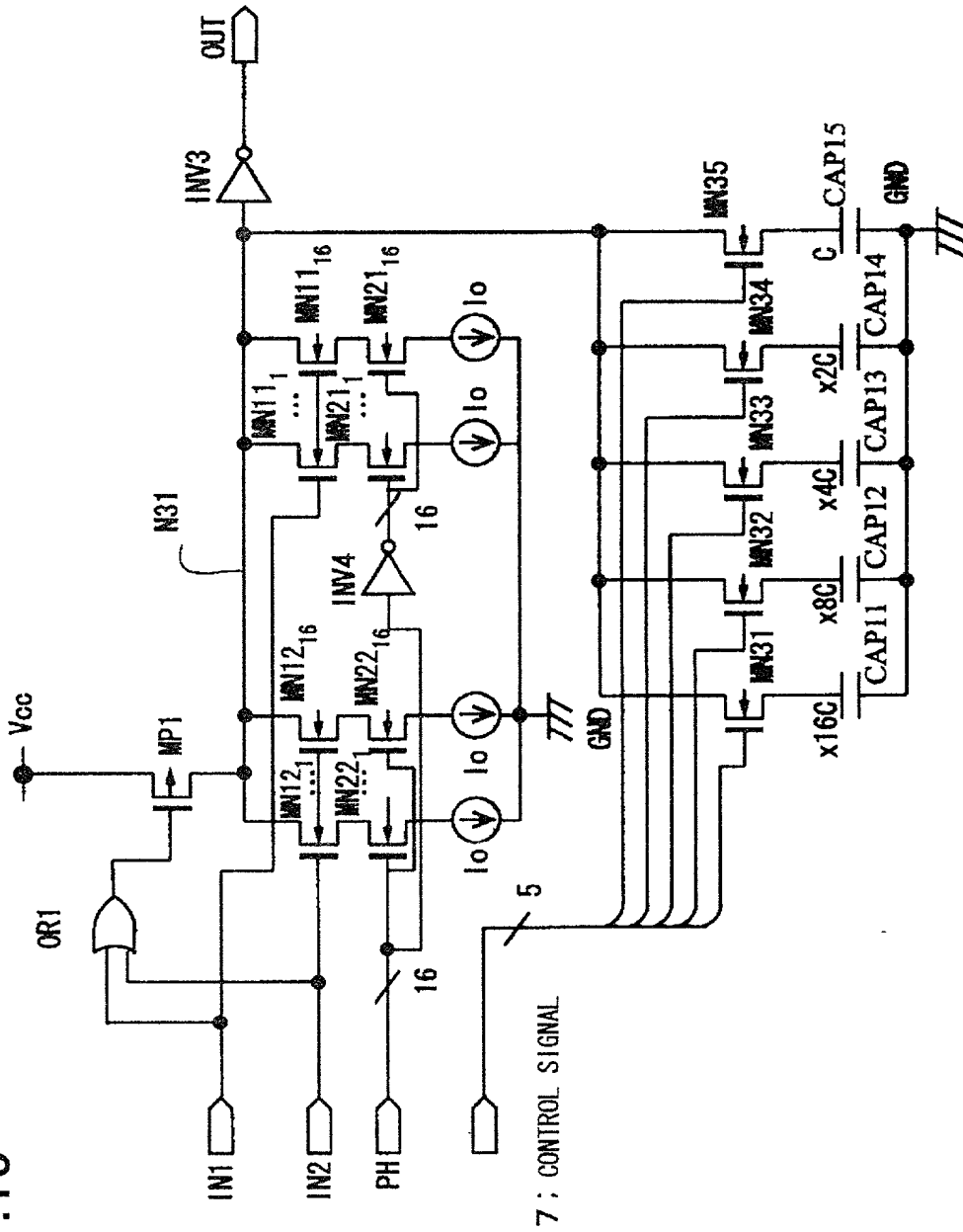


FIG. 15



7 : CONTROL SIGNAL

FIG. 16

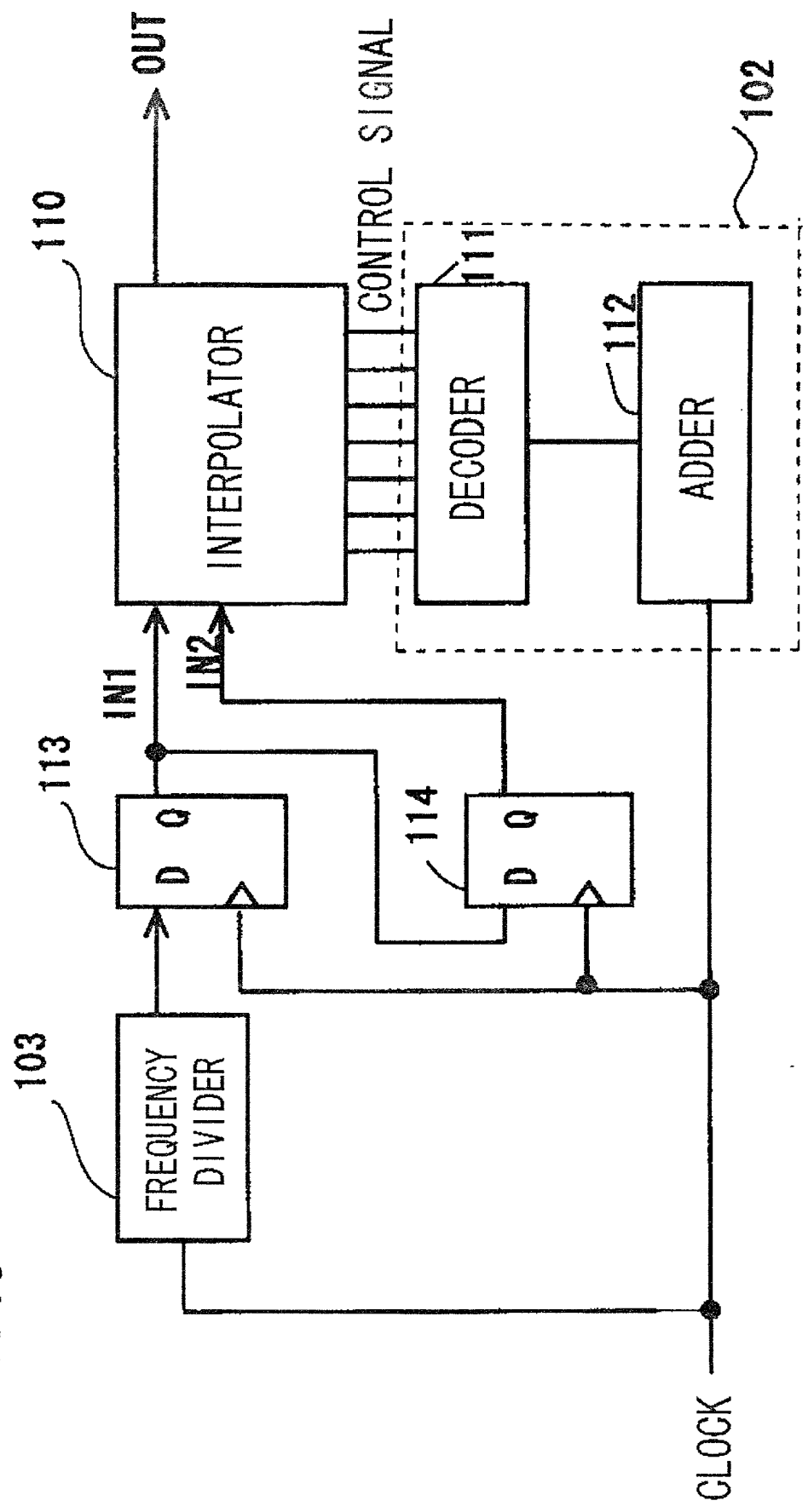


FIG. 17

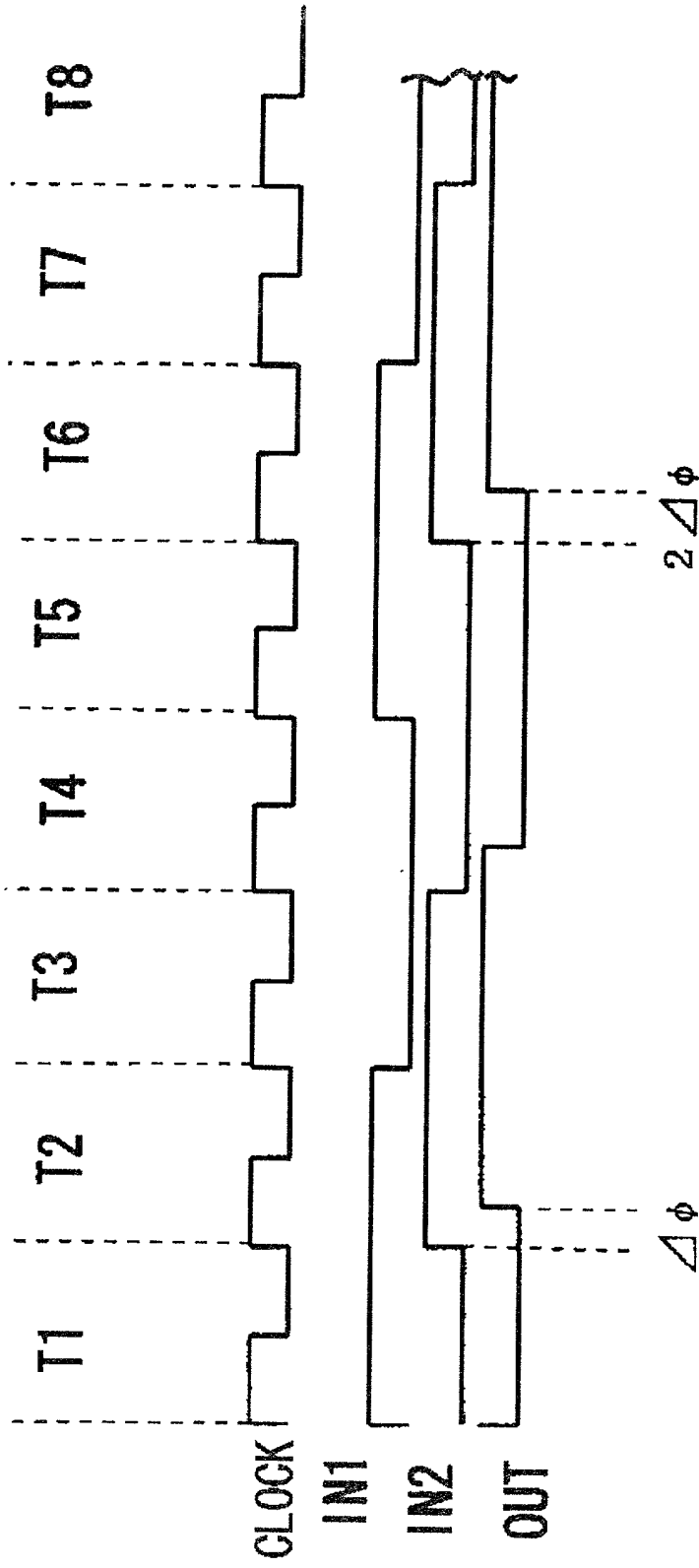
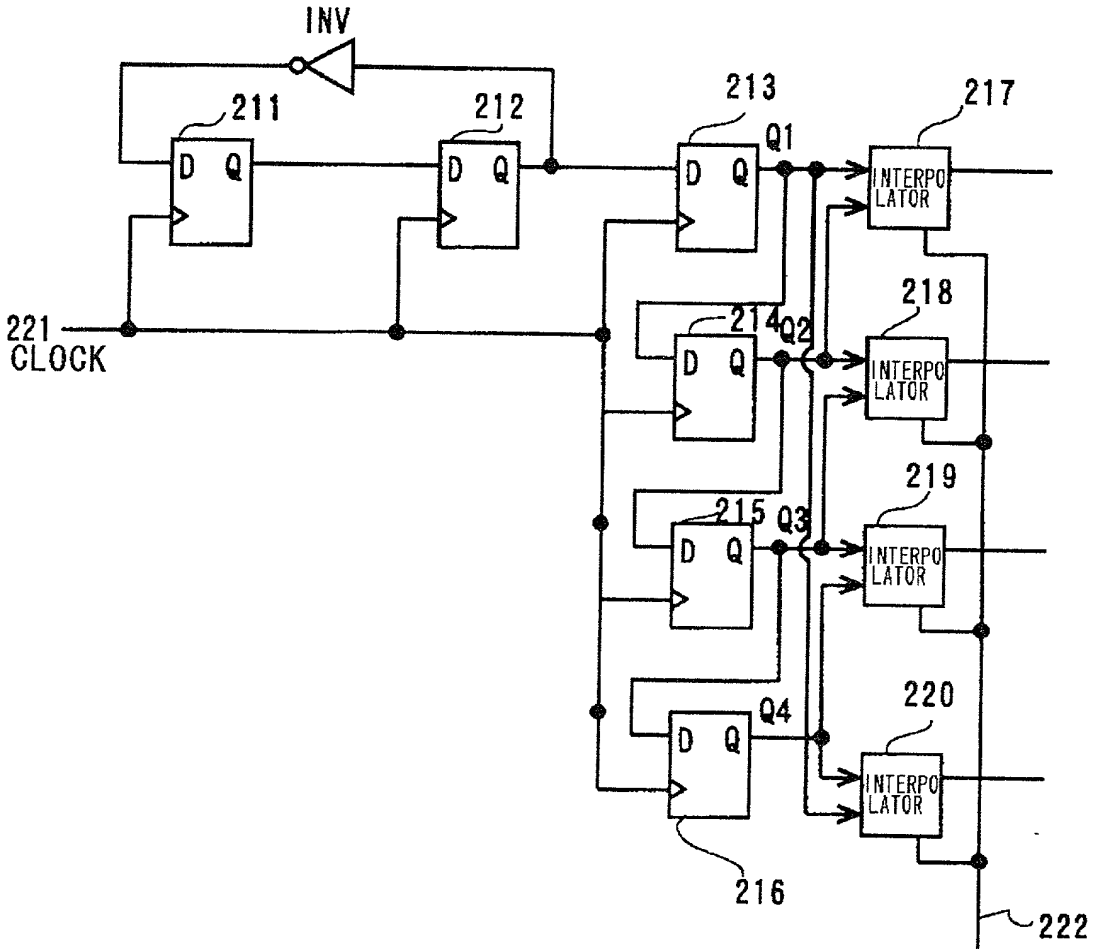


FIG . 18



FOR "20" 2707660

FIG . 19

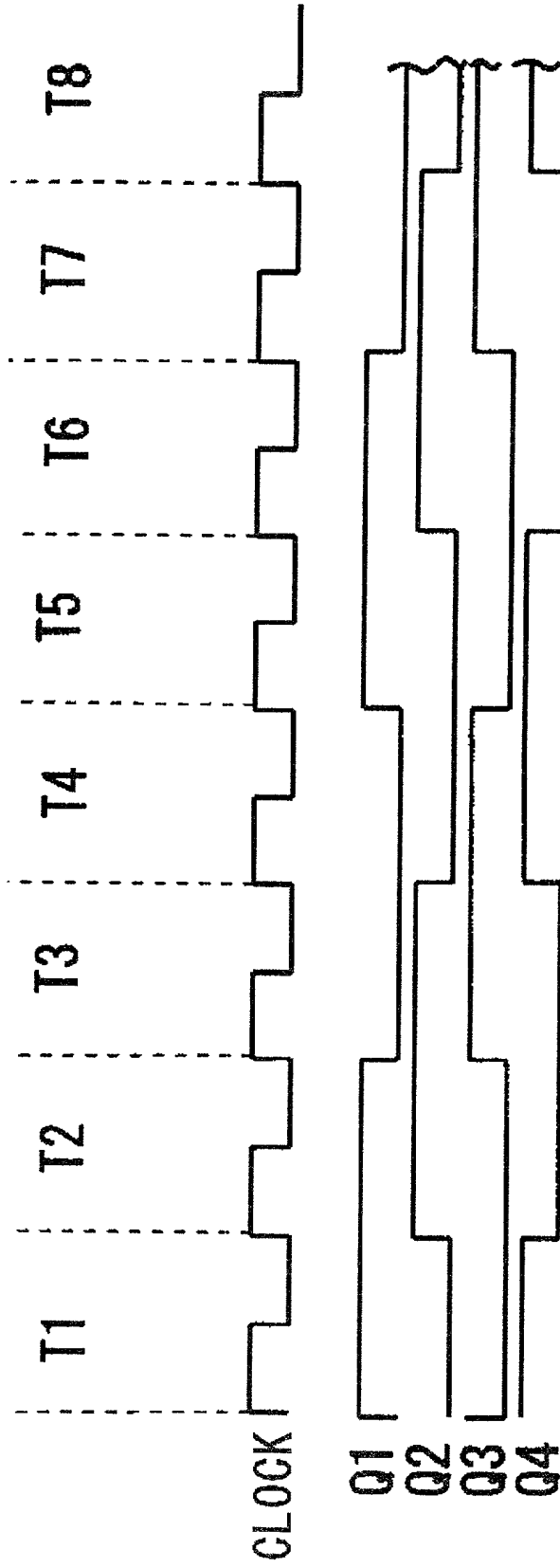


FIG. 20

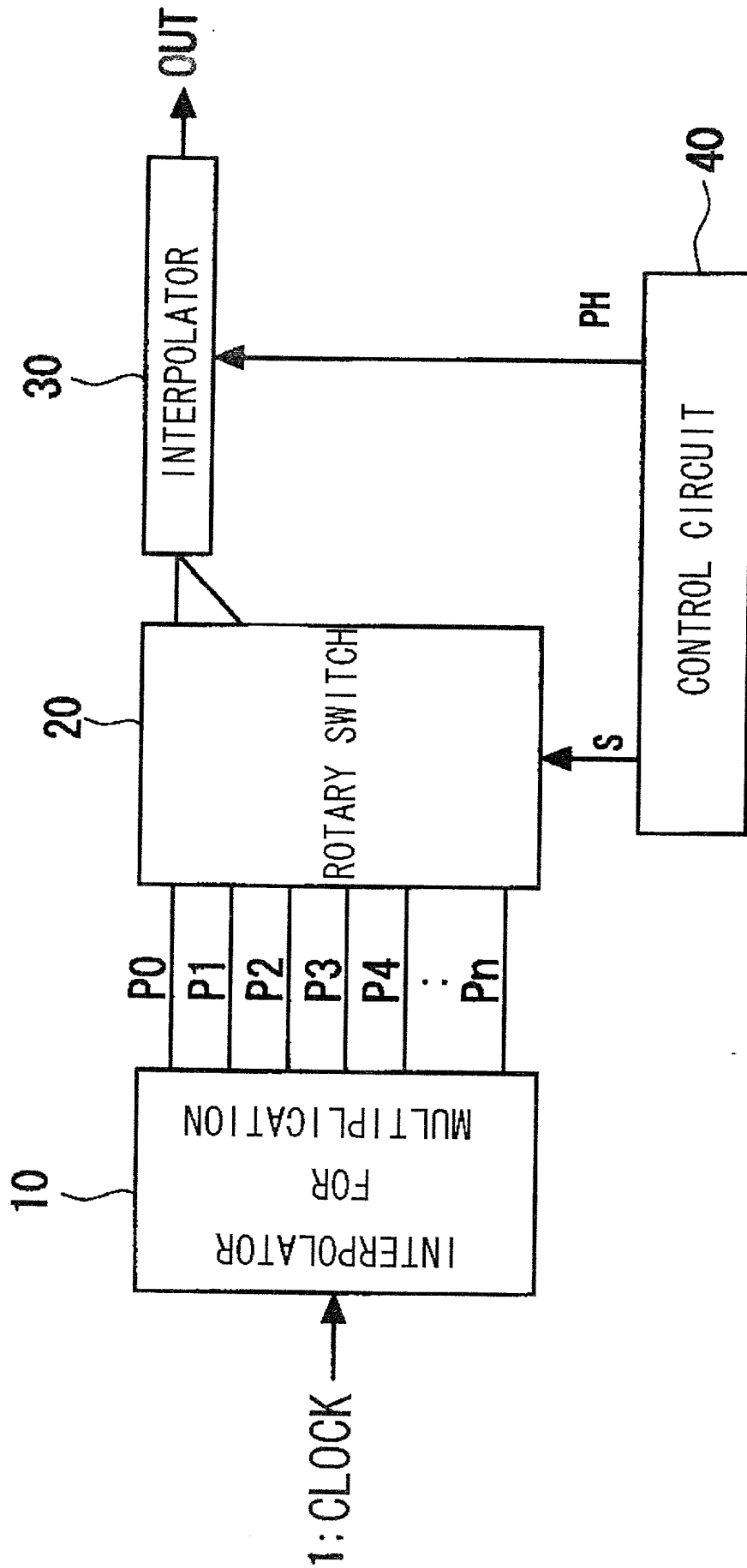
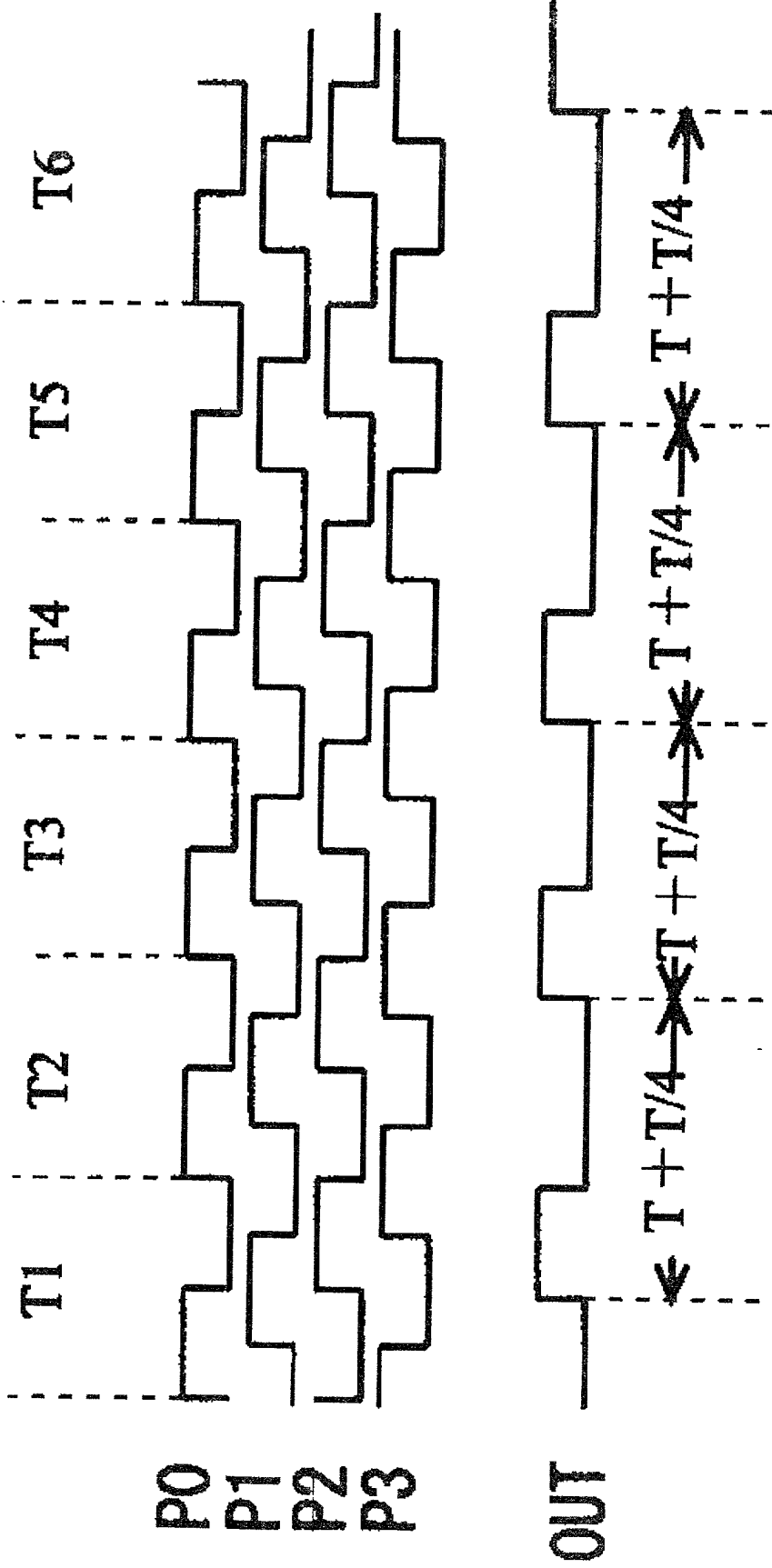


FIG . 21



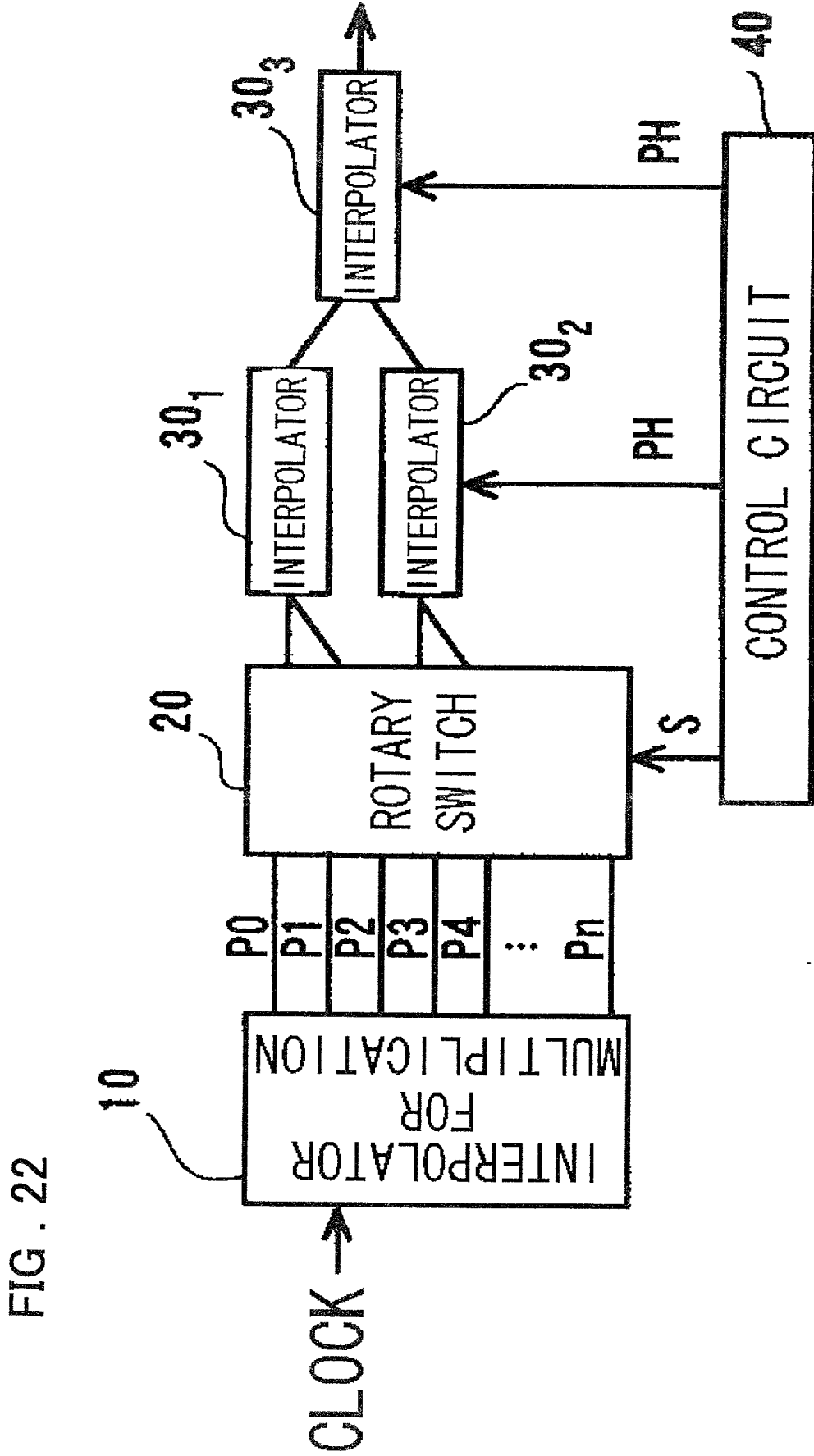
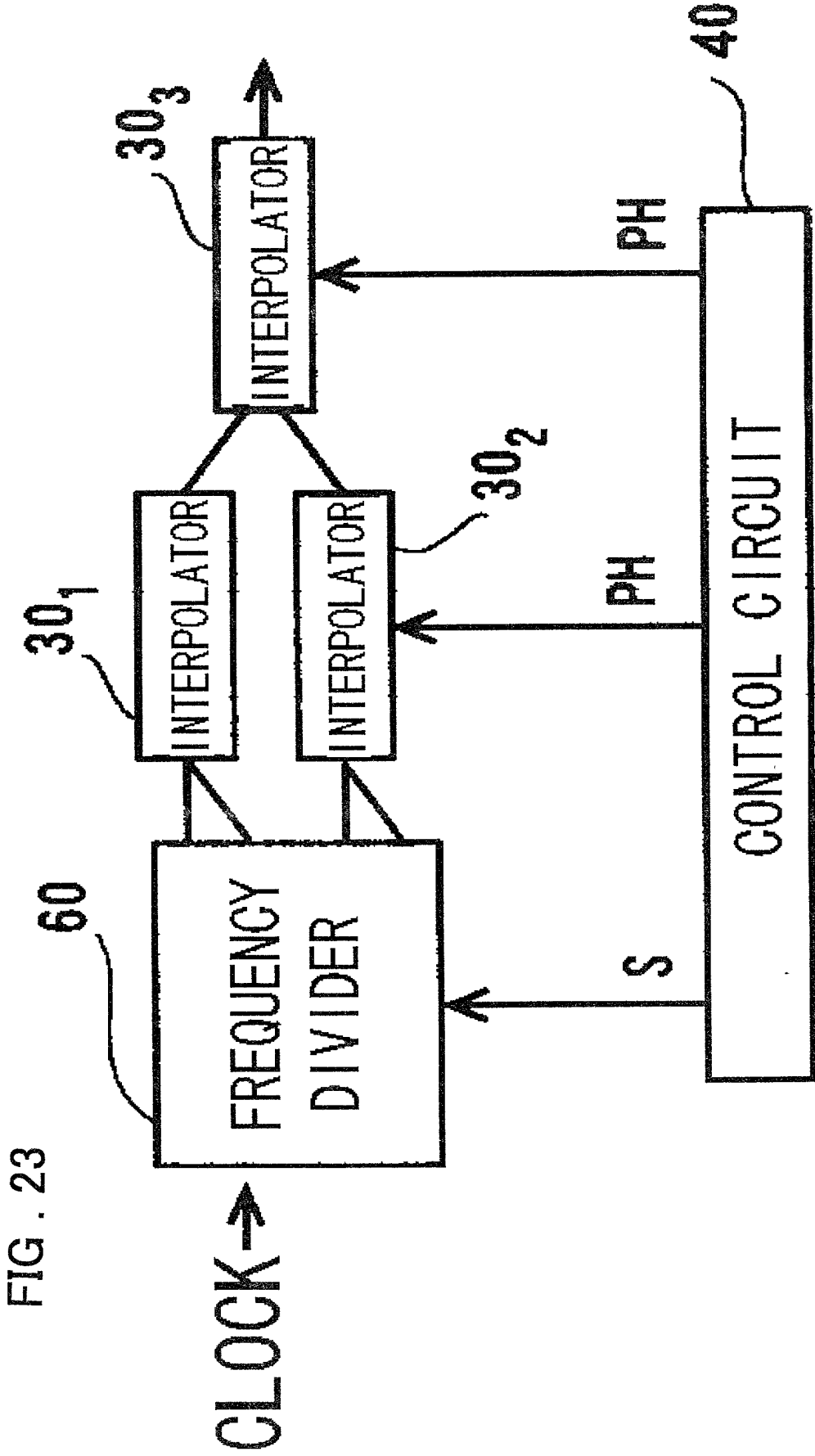


FIG. 22



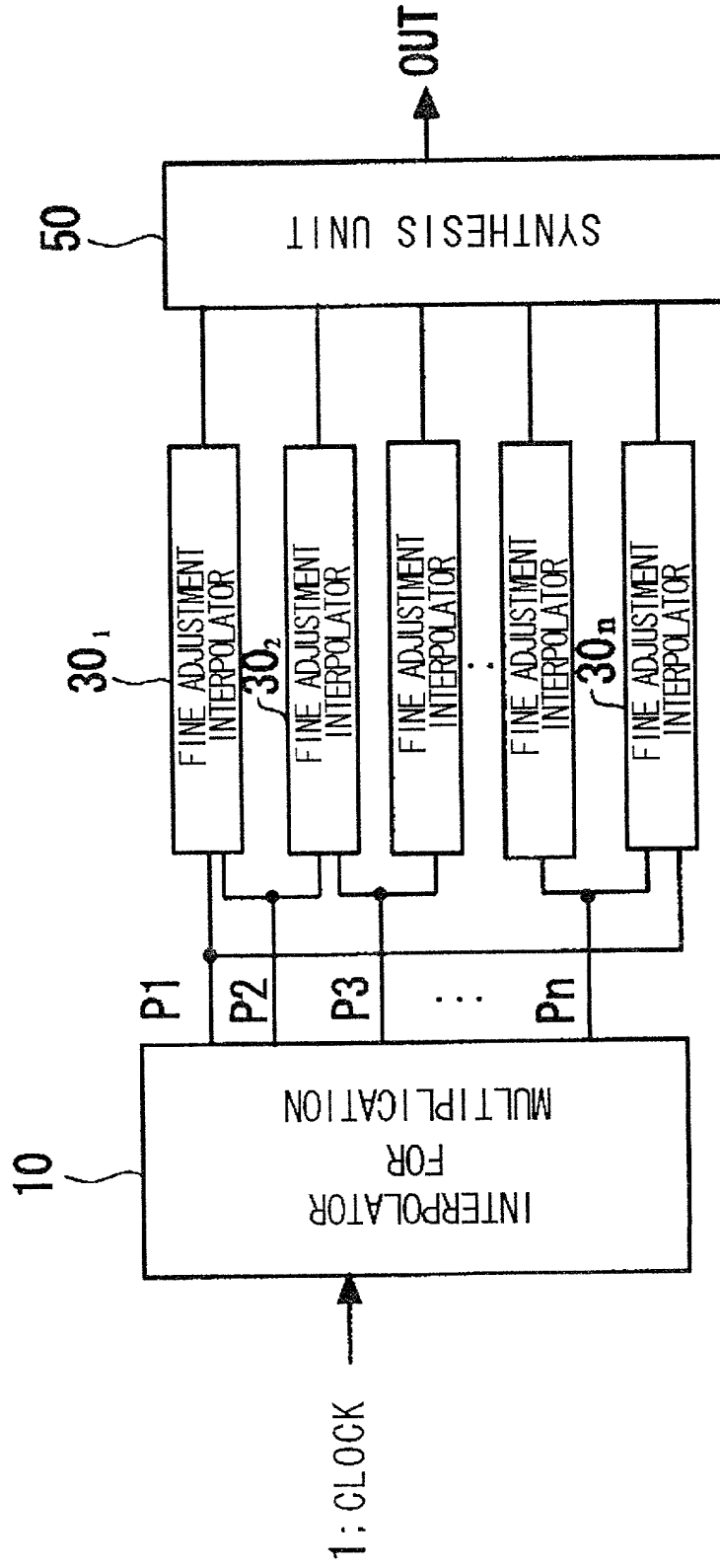


FIG. 24

FIG . 25

FOO220" 2TTOT660

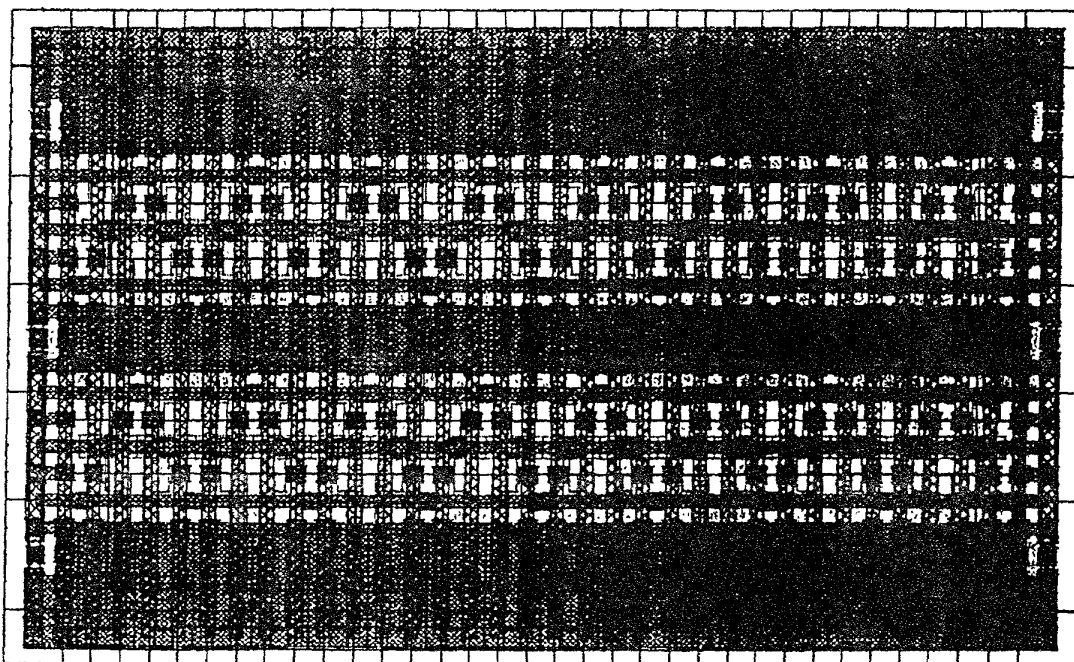


FIG . 26

FOO240*2TFOT660

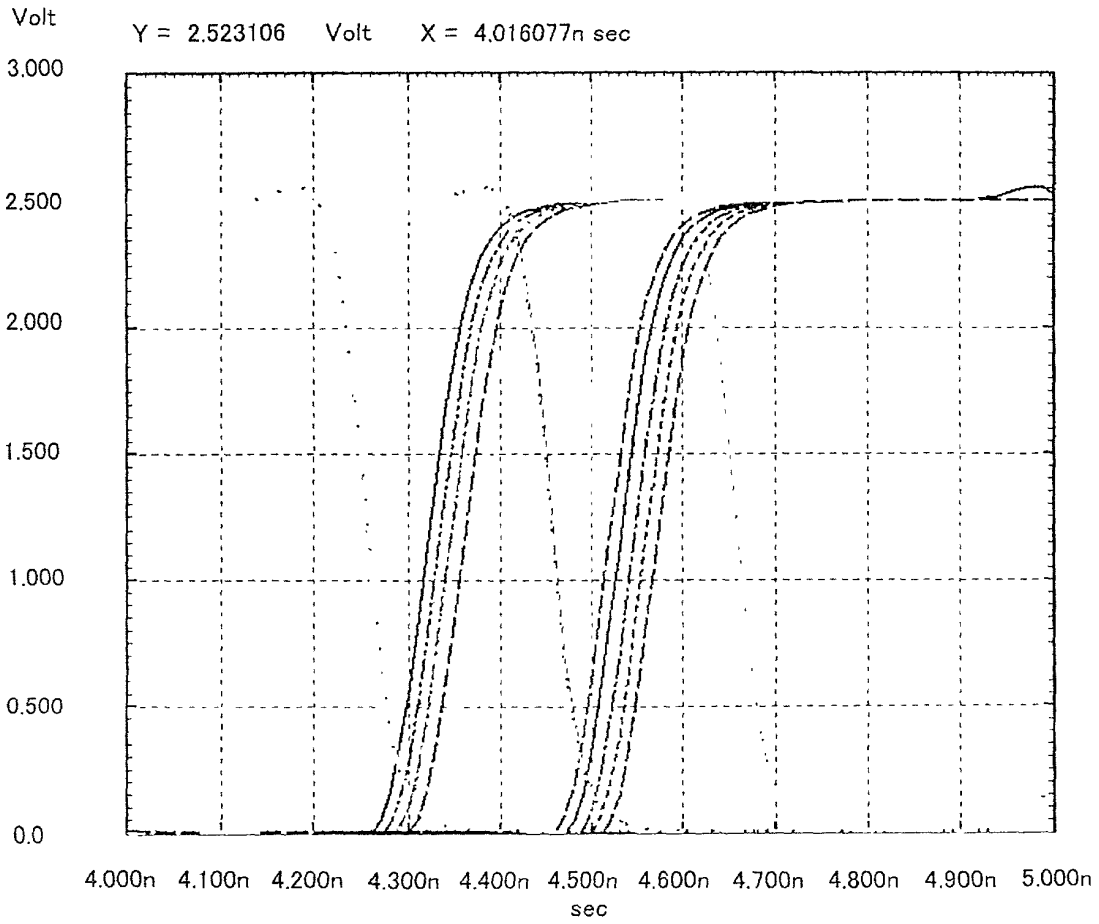


FIG. 27 PRIOR ART

